

What is claimed is:

1 1. A topical cosmetic composition, said composition
2 comprising:

3 (a) 0.5% to 40% of a hybrid silicone composite powder
4 having a spherical shape with particle diameter ranging from 2 to
5 10 μm ;

6 (b) 0.1% to 95% of a volatile cosmetic fluid;

7 (c) 0.5% to 90% of a silicone fluid with viscosity
8 ranging from 2 to 350 cSt;

9 (d) 0.1 to 80% of an oil base consisting of an oil,
10 wax, oil gelling agent or the mixture thereof;

11 (e) 0.05 to 15% of a surface active agent;

12 (f) 0.05 to 40% of a cosmetic pigment; and

13 (g) optionally, an aqueous gel containing glycerin,
14 glycol and an aqueous thickening agent.

1 2. The composition of claim 1, wherein the hybrid
2 silicone composite powder having a spherical shape with particle
3 diameter ranging from 2 to 10 μm comprises polydimethylsiloxane
4 (PMS) and polymethylsilsesquioxane (PMSQ) networks.

1 3. The composition of claim 2, wherein the PMS and
2 PMSQ networks form a composite structure of interpenetrating
3 polymer networks, which are held together by physical

4 entanglements on a molecular scale without chemical bonding
5 between them.

1 4. The composition of claim 3, wherein the PMS and
2 PMSQ networks are sequentially synthesized using two different
3 reaction mechanisms.

1 5. The composition of claim 4, wherein the PMS and
2 PMSQ networks have a weight ratio of PMS:PMSQ ranging from 1:1 to
3 50:1.

1 6. The composition of claim 4, wherein the PMS network
2 is prepared by curing a liquid rubber emulsion containing alkenyl
3 silicone, hydrogen silicone and optionally methylalkoxysilane
4 using a platinum catalyst.

1 7. The composition of claim 6, wherein the liquid
2 rubber emulsion is an o/w emulsion.

1 8. The composition of claim 6, wherein the alkenyl
2 silicone is an organopolysiloxane having two or more alkenyl
3 groups per molecule.

1 9. The composition of claim 6, wherein the hydrogen
2 silicone is an organohydrogen polysiloxane having two or more
3 Si-H groups per molecule.

1 10. The composition of claim 6, wherein
2 methylalkoxysilane is selected from methyltrimethoxysilane and
3 methyltriethoxysilane.

1 11. The composition of claim 4, wherein PMSQ network
2 is synthesized through hydrolyzing and condensing
3 methyltrialkoxysilane impregnated in PMS network with aqueous
4 solution of ammonia or amine as the catalyst.

1 12. The composition of claim 1, wherein the volatile
2 cosmetic fluid is selected, without special limitation, from the
3 group consisting of a cyclomethicone, a low viscosity
4 dimethicone fluid with viscosity ranging from 0.65 to 2 cSt, a
5 C₈-C₁₂ hydrocarbon fluid, a low molecular weight alkylmethicone
6 fluid and a mixture thereof.

1 13. The composition of claim 1, wherein the silicone
2 fluid is selected from organopolysiloxane fluid with viscosity
3 ranging from 2 to 350 cSt.

1 14. The composition of claim 13, wherein the
2 organopolysiloxane fluid is selected from the group consisting of
3 dimethicone, phenyltrimethicone, alkyl dimethicone, silanol,
4 amino-containing silicone, fluoroalkyl silicone,
5 hydroxy-functional silicone, carboxy-functional silicone,

alkoxy-functional silicone, high molecular weight silicone gum solution, silicone resin solution and silicone-grafted polyacrylate solution.

15. The composition of claim 1, wherein the oil base comprises: (a) an oil selected from the group consisting of mineral oils, plant oils, animal oils, fatty acids, fatty acid esters and fatty alcohols; (b) a cosmetic wax having a melting point of 40°C or higher; and (c) an oil gelling agent selected from the group consisting of mineral clays, metallic soaps, montmorillonite, polyglyceryl fatty acid esters, hydrophobic sucrose fatty esters, synthetic polymers, starch fatty acid ester and mixtures thereof.

16. The composition of claim 1, wherein the surface active agent is selected from the group consisting of nonionic, anionic, cationic, amphoteric and oxyalkylene-modified organopolysiloxanes.

17. The composition of claim 1, wherein the cosmetic pigment is selected from the group consisting of talc, kaolin, mica, pearl, magnesium carbonate, magnesium silicate, aluminum magnesium silicate, silica, calcium carbonate, zinc oxide, titanium dioxide, red iron oxide, yellow iron oxide, black iron oxide, ultramarine blue, polyethylene powder, polystyrene powder, silk powder, polymethacrylate powder, polytetrafluoroethylene

8 powder, nylon powder, polyurethane powder, crystalline cellulose,
9 titanated mica, bismuth oxychloride, interference pigments and
10 mixtures thereof.

1 18. The composition of claim 1, wherein the aqueous
2 gel comprises water, glycerin, glycol and a thickening agent.

1 19. The composition of claim 18, wherein the glycol is
2 selected from the group consisting of propylene glycol,
3 1,3-butylene glycol, hexylene glycol, dipropylene glycol,
4 polyethylene glycol, polypropylene glycol, hydroxypropyl
5 sorbitol, hexanetriol and ethoxylated glycerin.

1 20. The composition of claim 18, wherein the
2 thickening agent is selected from the group consisting of
3 water-soluble and water dispersible polymers including polymers
4 that may be crosslinked.

1 21. The composition of claim 1, wherein said
2 composition further comprises a preservative.

1 22. The composition of claim 21, wherein the
2 preservative is selected from the group consisting of
3 phenoxyethanol, methylparaben, ethylparaben, propylparaben,
4 butylparaben, isobutylparaben, imidazolidinyl urea,
5 p-hydroxybenzoic acid, benzyl alcohol, disodium EDTA, sodium

6 dehydroacetate, quaternary ammonium compounds, hydantoin
7 derivatives and mixtures thereof.

1 23. The composition of claim 1, wherein said
2 composition further comprises a cosmetically effective active
3 ingredient.

1 24. The composition of claim 23, wherein the
2 cosmetically effective active ingredient is selected from the
3 group consisting of sunscreen agents, tanning agents, vitamins,
4 glycolic acid, salicylic acid, polyphenol, antimicrobial,
5 botanical extracts, enzymes and lipids.

1 25. A hybrid silicone composite powder having a
2 spherical shape with a particle diameter ranging from 2 to 10
3 microns comprising polydimethylsiloxane (PMS) and
4 polymethylsilsesquioxane (PMSQ) networks.

1 26. The hybrid silicone composite powder defined in
2 claim 25 wherein the PMS and PMSQ networks form a composite
3 structure of interpenetrating polymer networks, which are held
4 together by physical entanglements on a molecular scale without
5 chemical bonding between them.